## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY						
To: Ehrner & Delmar Patentbyrå AB P.O. Box 10316	PCT  WRITTEN OPINION OF THE					
100 55 STOCKHOLM SE	INTERNATIONAL SEARCHING AUTHORITY					
	(PCT Rule 43bis.1)					
	Date of mailing (day/month/year) 0 6 -08- 2004					
Applicant's or agent's file reference 72150PC	FOR FURTHER ACTION See paragraph 2 below					
	date (day/month/year) Priority date (day/month/year) 12.05.2003					
International Patent Classification (IPC) or both national classification and IPC E21D 21/00, E21F 17/02						
Applicant Atlas Copco Rock Drills AB Patent et al						
1. This opinion contains indications relating to the following items:    Box No. I   Basis of the opinion						
Name and mailing address of the ISA/SE Patent- och registreringsverket	Authorized officer					
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Form PCT/ISA/237 (cover sheet) (January 2004)

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/SE2004/000732

	Box N	No. I	Basis of this opinion
			ard to the language, this opinion has been established on the basis of the international application in the language it was filed, unless otherwise indicated under this item.
			is opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and .1(b)).
			ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:
	a.	type o	of material
l			a sequence listing
-			table(s) related to the sequence listing
	b	. forma	at of material
۱		닐	in written format
		Ш	in computer-readable form
١	c	. time	of filing/furnishing
ļ			contained in the international application as filed.
l			filed together with the international application in computer readable form.
l			furnished subsequently to this Authority for the purposes of search.
	3. [	fil	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been led or furnished, the required statements that the information in the subsequent or additional copies is identical to at in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
	4. A	Addition	nal comments:
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/SE2004/000732

Box No. V			Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
۱.	Statemer	nt				
	Novel	lty (N)	Claims	1-9	YES	
			Claims		NO	

1-9 YES Claims Inventive step (IS) Claims

Industrial applicability (IA) Claims YES Claims NO

2. Citations and explanations:

## The claimed invention

The claimed invention relates to expandable rock bolts for use as suspension attachments. It is an object of the present invention to provide an improved rock bolt for suspension, which entails minimized stress concentrations in the bolt. Another object of the present invention is to provide a suspension device that simplifies the work when moving into a rock.

in following documents have been cited the International Search Report

D1: US 3 651 651 A D2: US 5 997 219 A D3: SE 443 398 B D4: SE 427 764 B

The documents cited in the International Search Report represent the prior art. The claimed invention stated in claims 1-9 is not considered to be anticipated by these documents. None of the documents orany relevant combination of them reveals expandable rock bolts for use as suspension attachments as described by these claims.

According to the arguments stated above, the invention claimed in claims 1-9 is novel, considered to involve an inventive step and has industrial applicability.